

Carmen Johnson
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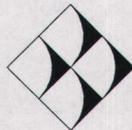
Ground Water Monitoring Report

September 2006 Monitoring Event

**Red Rock Construction & Demolition Debris Landfill
 Holly Springs, North Carolina
 NC Solid Waste Permit # 92-28**

Prepared for:
Waste Industries, Inc.
 3301 Benson Drive Suite 601
 Raleigh, NC 27609

October 2006



G.N. Richardson & Associates, Inc.
 Engineering and Geological Services
 14 North Boylan Avenue
 Raleigh, North Carolina 27603

Red Rock C&D Landfill

**Ground Water Monitoring Report
September 2006 Monitoring Event**

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1.0 Introduction

On September 19, 2006, Environment 1 Laboratory personnel performed the required semi-annual detection monitoring event at the Red Rock C&D Landfill. This sampling event satisfies the requirements of the detection monitoring program under Solid Waste Permit # 92-28. The following report summarizes the monitoring event, sampling procedures, field and laboratory results, and ground water characterization as required by NC Solid Waste Regulations. Also included are summary tables of ground water measurements, field parameters, and detected constituents, and the laboratory analytical report.

2.0 Sampling Procedures

Ground water sampling was performed at 6 well locations. In addition, semi-annual surface water monitoring was performed at two (2) locations down stream of the landfill. There is currently no upgradient sampling location. The monitoring locations are shown on **Figure 1**.

Sampling procedures followed the protocols set forth in the site's Water Quality Monitoring Plan and the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities. Each well was gauged to determine ground water depth and then purged of a minimum of three well volumes or until dry. The wells were purged and allowed to stabilize prior to sample collection. Ground water purging and sample collection were performed using a laboratory cleaned, dedicated, bailer.

Field measurements of pH, specific conductivity, temperature, and turbidity were taken at each well and surface water sampling location. Field meters were calibrated prior to sampling. Samples were collected in laboratory containers provided by Environment 1, Inc. (NC Laboratory Certification # 10). Upon collection, the samples were sealed, placed on ice, and transported to the laboratory. Field blanks were also collected for quality control purposes.

During the sampling process, each well was inspected for signs of damage or unusual conditions. All wells were found to be in good condition and free of obstructions.

Samples from surface water points SW-2 and SW-3 were collected during ground water sample collection. The surface water locations are show in **Figure 1**. Please note that surface water SW-1 is located in a wetland area that has been removed from the site for landfill construction. Additionally, monitoring well MW-1 has been removed from the site for cell construction as well and properly abandoned in accordance with 15A NCAC regulations.

3.0 Field and Laboratory Results

All samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Practical Quantitation Limits for Appendix I constituents. The laboratory analysis is included in **Appendix A**.

Ground water and field measurements are included as **Tables 1 and 2** respectively. The laboratory analysis detected no Appendix I organic compounds. Inorganic laboratory analysis detected three inorganic constituent (arsenic, barium and selenium) in the ground water samples (**Table 3**). This is likely due to turbidity in the water from the wells.

Analysis of surface water samples indicated no detectable levels of constituents.

4.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected in September 2006. Ground water velocity was calculated for each monitoring well on-site using the equation $V = (KI)/n$ where:

K = hydraulic conductivity
I = ground water gradient
n = porosity

Ground water velocities ranged from 0.048 feet/day (MW-5) to 0.964 feet/day (MW-3). These calculations are included in **Table 4**. Ground water at the C&D landfill is migrating toward the south, east and west. The potentiometric surface for the C&D landfill is included as **Figure 1**.

5.0 Conclusions

The results of this monitoring event confirm that the ground water quality around the Red Rock C&D Landfill has not been impacted by the facility. The detected inorganic results are likely due to naturally occurring suspended solids in the samples.

The next detection monitoring event is tentatively scheduled for March 2007. The results of this event will be included in the spring Ground Water Monitoring Report. These samples will be analyzed for the full suite of Appendix I constituents.

Figures

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Under Reports Cover

Tables

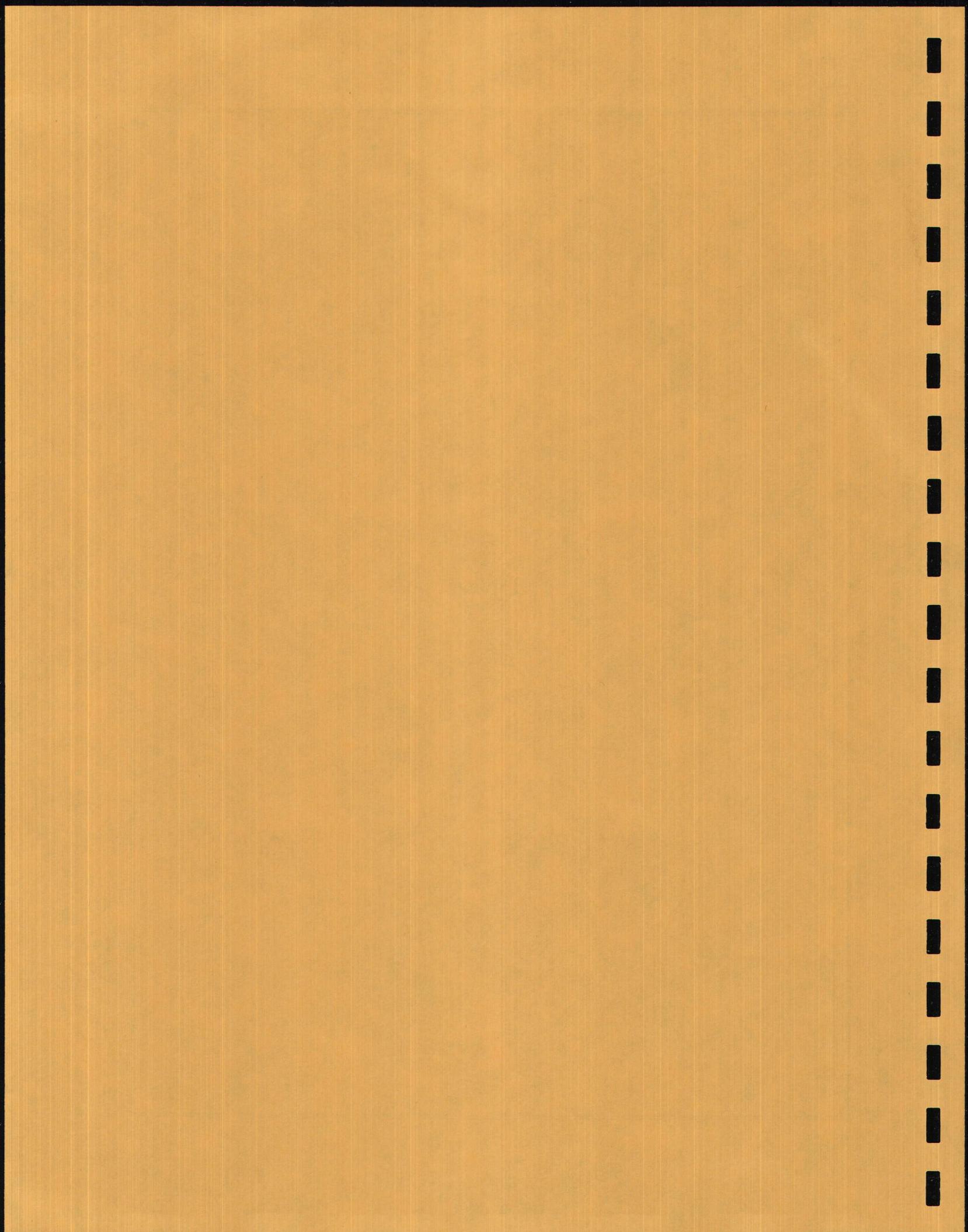


Table 1
Ground Water Elevations
Red Rock C&D Landfill
09/19/06

Well	Top of Casing	Depth to Water	Water Table Elevation
MW-2T	281.19	24.00	257.19
MW-3	261.80	13.03	248.77
MW-4	254.10	5.57	248.53
MW-5	254.47	4.00	250.47
MW-6T	289.21	11.95	277.26
MW-10	301.16	10.33	290.83

Table 2
Field Parameters
Red Rock C&D Landfill
09/19/06

Well	pH (std units)	Sp. Conductivity (uMhos)	Temperature (degrees C)
MW-2T	7.4	2170	18
MW-3	7	4850	19
MW-4	5.9	158	19
MW-5	5.1	698	21
MW-6T	7.1	4700	20
MW-10	6.7	1378	19
SW-2	7	160	23
SW-3	6.9	170	21

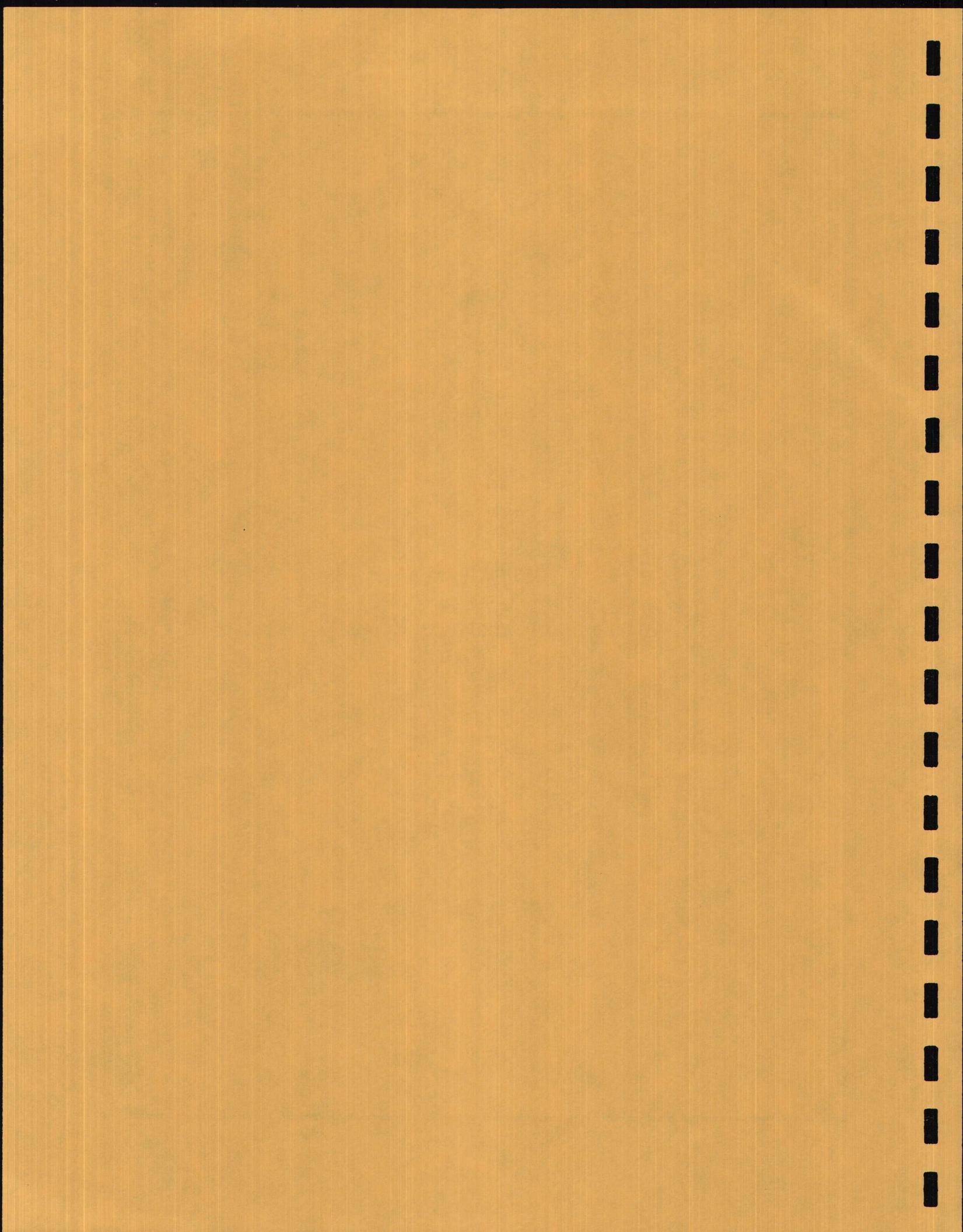
Table 3
Detected Constituents
Red Rock C&D Landfill
09/19/06

Detected Constituents	PQL	2L Standard	Wells		
			MW-2T	MW-3	MW-6T
Arsenic	10	50	ND	ND	0.017
Barium	0.5	2	ND	2.09	1.787
Selenium	0.02	0.05	ND	0.029	0.047

All results in mg/l
 Only wells with detections are included.
 ND - Not detected at or below PQL
 Shading - Level above 2L standard or no 2L standard

Appendix A

Laboratory Analytical Report



P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6011

RED ROCK LANDFILL (C&D)
MS. JOAN SMYTH
G.N. RICHARDSON & ASSOCIATES
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 09/19/06
DATE REPORTED : 10/02/06

REVIEWED BY: 

PARAMETERS	MW-2T	MW-3	MW-4	MW-5	MW-6T	Analysis		Method Code
						Date	Analyst	
PH (field measurement), Units	7.4	7.0	5.9	5.1	7.1	09/19/06	RJH	EPA150.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.017	09/26/06	CMF	EPA200.8
Barium, mg/l	<0.500	2.090	<0.500	<0.500	1.787	09/26/06	CMF	EPA200.8
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/26/06	CMF	EPA200.8
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/26/06	CMF	EPA200.8
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/26/06	CMF	EPA200.8
Mercury, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/26/06	CMF	EPA200.8
Selenium, mg/l	<0.020	0.029	<0.020	<0.020	0.047	09/26/06	CMF	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/26/06	CMF	EPA200.8
Conductivity (at 25c), uMhos	2170	4850	158	698	4700	09/19/06	RJH	SM2510B
Temperature, °C	18	19	19	21	20	09/19/06	RJH	SM2550B
Static Water Level, feet	24.00	13.03	5.57	4.00	11.95	09/19/06	RJH	
Well Depth, feet	80.56	31.18	17.38	16.34	53.61	09/19/06	RJH	

Environment 1, Incorporated

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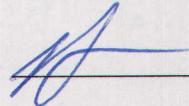
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DATE COLLECTED: 09/19/06
DATE REPORTED : 10/02/06

REVIEWED BY: 

PARAMETERS	MW-10	SW-2	SW-3	Trip	Analysis	Method
				Blank	Date	Analyst
PH (field measurement), Units	6.7	7.0	6.9		09/19/06	RJH EPA150.1
Arsenic, mg/l	<0.010	<0.010	<0.010		09/26/06	CMF EPA200.8
Barium, mg/l	<0.500	<0.500	<0.500		09/26/06	CMF EPA200.8
Cadmium, mg/l	<0.001	<0.001	<0.001		09/26/06	CMF EPA200.8
Total Chromium, mg/l	<0.010	<0.010	<0.010		09/26/06	CMF EPA200.8
Lead, mg/l	<0.010	<0.010	<0.010		09/26/06	CMF EPA200.8
Mercury, mg/l	<0.001	<0.001	<0.001		09/26/06	CMF EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020		09/26/06	CMF EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010		09/26/06	CMF EPA200.8
Conductivity (at 25c), uMhos	1378	160	170		09/19/06	RJH SM2510B
Temperature, °C	19	23	21		09/19/06	RJH SM2550B
Static Water Level, feet	10.33				09/19/06	RJH
Well Depth, feet	34.15				09/19/06	RJH

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CLIENT ID: 6011

ANALYST: MAO

DATE COLLECTED: 09/19/06 Page: 1

DATE REPORTED: 10/02/06

 REVIEWED BY: 
VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed:	09/20/06	09/20/06	09/20/06	09/20/06	09/20/06
		MW-2T	MW-3	MW-4	MW-5	MW-6T
1. Chloromethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00	<100.00

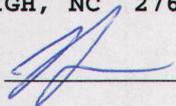
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VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: 09/20/06 MW-10	09/26/06 SW-2	09/26/06 SW-3	09/20/06 Trip Blank
1. Chloromethane	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00

CHAIN OF CUSTODY RECORD

SAMPLE LOCATION	COLLECTION		TOTAL CHLORINE, mg/l	AT COLLECTION	TEMPERATURE, °C	# OF CONTAINERS	DISINFECTION				Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	PARAMETERS	CHEMICAL PRESERVATION	CONTAINER TYPE, P/G	pH CHECK (LAB)	CHLORINE NEUTRALIZED AT COLLECTION	
	DATE	TIME					CHLORINE	UV	NONE															
MW-2T	09	1906 1035			18	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
MW-3	09	1906 1040			19	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
MW-4	09	1906 1035			19	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
MW-5	09	1906 1000			21	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
MW-6T	09	1906 1055			20	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
MW-10	09	1906 1105			19	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
SW-2	09	1906 1015			23	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
SW-3	09	1906 1045			21	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
Trip Blank						2																		
RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
<i>Bob Hase</i>	09 19 06		<i>Sandra Brown</i>	9-19-06 4:43																				
RELINQUISHED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.